

ABSTRACT

An apparatus for detecting physical marks from a wobble signal includes a matching value operation unit, a threshold value generator and a physical mark indicator. A wobble signal is converted into a matched signal by the matching value operation unit according to the waveform difference between a normal clock signal or a specific matching reference signal and itself, wherein the matching reference signal needs to highlight the existed physical mark. The physical mark indicator designates a threshold value that depends on the status of the wobble signal, and compares the matched signal with the threshold value to output a physical mark indication signal. The threshold value is selected from at least two different default values. Furthermore, a decoder is employed to convert the physical mark indication signal into wobble data with physical address information.